

ABSTRACT OF THE DISCLOSURE

A novel chemical species, called magnecules, which is composed of clusters of molecules, and/or dimers, and/or atoms formed by internal bonds due to the magnetic polarization of the orbits of at least some of the peripheral atomic electrons present in the cluster, the intrinsic magnetic field of nuclei present in the cluster, and the intrinsic magnetic fields of valence electrons present in the cluster that are not correlated in singlet couplings to other electrons to form valence bonds is disclosed.

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